

## CLAIMS

1. A wax comprising a reaction product of:
  - (a) 30% to 45% of a C<sub>6</sub>-C<sub>12</sub> linear dicarboxylic acid;
  - (b) 40% to 60% of a C<sub>10</sub>-C<sub>22</sub> monocarboxylic acid; and
  - (c) 12% to 20% of a diamine of formula H<sub>2</sub>N(CH<sub>2</sub>)<sub>n</sub>NH<sub>2</sub>, wherein n is an integer from 2 to 6.
2. The wax of claim 1 in which said C<sub>6</sub>-C<sub>12</sub> linear dicarboxylic acid is a C<sub>8</sub>-C<sub>10</sub> linear dicarboxylic acid, said C<sub>10</sub>-C<sub>22</sub> monocarboxylic acid is a C<sub>16</sub>-C<sub>18</sub> monocarboxylic acid, and n is 2 or 3.
3. The wax of claim 2 which is a reaction product of 32% to 40% of a C<sub>8</sub>-C<sub>10</sub> linear dicarboxylic acid, 43% to 53% of a C<sub>16</sub>-C<sub>18</sub> monocarboxylic acid, and 14% to 18% of said diamine.
4. The wax of claim 3 in which said C<sub>8</sub>-C<sub>10</sub> linear dicarboxylic acid is a C<sub>10</sub> linear dicarboxylic acid, said C<sub>16</sub>-C<sub>18</sub> monocarboxylic acid is a C<sub>18</sub> monocarboxylic acid, and said diamine is ethylene diamine.
5. The wax of claim 4 which is a reaction product of 34% to 38% of a C<sub>10</sub> linear dicarboxylic acid, 46% to 50% of a C<sub>18</sub> monocarboxylic acid, and 15% to 17% of ethylene diamine.
6. The wax of claim 5 which is a reaction product of sebacic acid, stearic acid and ethylene diamine.
7. The wax of claim 1 in which a ratio of total number of equivalents of carboxylic acid reactants to total number of equivalents of amine reactants is from 0.97 to 1.06.

8. The wax of claim 7 in which said C<sub>6</sub>-C<sub>12</sub> linear dicarboxylic acid contains a saturated alkylene group, said C<sub>10</sub>-C<sub>22</sub> monocarboxylic acid contains a saturated alkyl group, and said diamine contains a saturated alkylene group; n is 2 or 3; and the ratio of total number of equivalents of carboxylic acid reactants to total number of equivalents of amine reactants is from 1.0 to 1.03.

9. The wax of claim 8 which is produced by first combining said C<sub>6</sub>-C<sub>12</sub> linear dicarboxylic acid and said diamine, with sub-surface addition of the diamine, and then adding said C<sub>10</sub>-C<sub>22</sub> monocarboxylic acid.

10. The wax of claim 8 in which said C<sub>6</sub>-C<sub>12</sub> linear dicarboxylic acid is sebacic acid, said C<sub>10</sub>-C<sub>22</sub> monocarboxylic acid is stearic acid and n is 2.